



SPYWOLF

Security Audit Report



Completed on
December 12, 2022

@SPYWOLFNETWORK



@SPYWOLFNETWORK



SPYWOLF.CO





OVERVIEW

This audit has been prepared for **MetaTools** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

”





TABLE OF CONTENTS

Project Description	01
Contract Information	02
Current Stats	03-04
Featured Wallets	05
Vulnerability Check	06
Threat Levels	07
Found Threats	08-A/08-B
Good Practices	09
Tokenomics	10
Team Information	11
Website Analysis	12
Social Media & Online Presence	13
About SPYWOLF	14
Disclaimer	15



MetaTools



PROJECT DESCRIPTION

According to their website:

Metatools is a technology that will help us all increase our chances of success. It will do this by constantly scanning the Twitter activity of a select number of Influencers for keywords and phrases and cross-references them with live pairs on the Ethereum blockchain, finding any keyword matches and delivering them to users in real-time. This will allow them to invest in what could be the beginning of a highly profitable trend.

Release Date: Presale starts in December, 2022

Category: Market analysis tools



CONTRACT INFO

Token Name
MetaToolsERC

Symbol
METS

Contract Address
0x7adc29cec54b124a7E8E1B1415DFf95DDD13B173

Network
Ethereum

Language
Solidity

Deployment Date
Dec 11, 2022

Verified?
Yes

Total Supply
10,000,000,000

Status
Not launched

TAXES

Buy Tax
5%

Sell Tax
8%

*Taxes can be changed in future



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



CURRENT STATS

(As of December 12, 2022)



Liquidity

Not added yet



Burn

No burnt tokens

Status:
Not Launched!

MaxTxAmount
50,000,001

DEX
Uniswap

LP Address(es)

Liquidity not added yet



TOKEN TRANSFERS STATS

Transfer Count	1
Uniq Senders	1
Uniq Receivers	1
Total Amount	10000000000 METS
Median Transfer Amount	10000000000 METS
Average Transfer Amount	10000000000 METS
First transfer date	2022-12-11
Last transfer date	2022-12-11
Days token transferred	1

SMART CONTRACT STATS

Calls Count	1
External calls	1
Internal calls	0
Transactions count	1
Uniq Callers	1
Days contract called	1
Last transaction time	2022-12-11 20:36:35 UTC
Created	2022-12-11 20:36:35 UTC
Create TX	0xfcfbeef908f59b5f955317697ca22d7a826b0514a472dc9fafe94a5f37c4727f
Creator	0x85346b8b9515ad9167b6b6a10d5af0454dabbbf4



FEATURED WALLETS

Owner address	0x85346B8B9515AD9167B6b6A10D5AF0454DabbbF4
Marketing wallet	0xdEe455b1bdB00F3272773D42Fb2dAC85927edD32
LP address	Liquidity not added yet

TOP 3 UNLOCKED WALLETS

1



Same as owner



VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

⚠ High Risk

No high risk-level threats found in this contract.

⚠ Medium Risk

- Owner can set buy fees up to 20% and sell fees up to 25%. Combined buy+sell=45%.

```
function updateBuyFees(
    uint256 _marketingFee,
    uint256 _liquidityFee
) external onlyOwner {
    buyMarketingFee = _marketingFee;
    buyLiquidityFee = _liquidityFee;
    buyTotalFees = buyMarketingFee + buyLiquidityFee;
    require(buyTotalFees <= 20, "Must keep fees at 20% or less");
}

function updateSellFees(
    uint256 _marketingFee,
    uint256 _liquidityFee
) external onlyOwner {
    sellMarketingFee = _marketingFee;
    sellLiquidityFee = _liquidityFee;
    sellTotalFees = sellMarketingFee + sellLiquidityFee;
    require(sellTotalFees <= 25, "Must keep fees at 25% or less");
}
```

- Recommendation:
 - Considered as good tax deduction practice is buy and sell fees combined not to exceed 25%.



Informational

Owner can exclude address from fees and max transaction limit.

```
function excludeFromFees(address account, bool excluded) public onlyOwner {
    _isExcludedFromFees[account] = excluded;
    emit ExcludeFromFees(account, excluded);
}

function excludeFromMaxTransaction(address updAds, bool isEx)
    public
    onlyOwner
{
    _isExcludedMaxTransactionAmount[updAds] = isEx;
}
```

Owner can set max transaction limit, but cannot lower it than 0.1% of total supply.

Owner can set max wallet limit, but cannot lower it than 0.5% of total supply.

```
function updateMaxTxnAmount(uint256 newNum) external onlyOwner {
    require(
        newNum >= ((totalSupply() * 1) / 1000) / 1e18,
        "Cannot set maxTransactionAmount lower than 0.1%"
    );
    maxTransactionAmount = newNum * (10**18);
}

function updateMaxWalletAmount(uint256 newNum) external onlyOwner {
    require(
        newNum >= ((totalSupply() * 5) / 1000) / 1e18,
        "Cannot set maxWallet lower than 0.5%"
    );
    maxWallet = newNum * (10**18);
}
```



RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

MetaTools

GOOD PRACTICES FOUND

- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot stop or pause the contract
- ✓ The owner can set a transaction limit, but can't lower it than 0.1% of total supply
- ✓ The smart contract utilizes "SafeMath" to prevent overflows



There is no information about the initial tokens distribution in their website and/or whitepaper.

TOKENOMICS



THE TEAM

The team has privately doxxed to SPYWOLF by completing the following KYC requirements:

- ID Verification
- Video statement
- Video interview with devs
- Owner's wallet verification

KYC INFORMATION

Issuer

SPYWOLF

Members KYC'd



KYC Date

Dec 12, 2022

Format

Image

Certificate Link

https://github.com/SpyWolfNetwork/KYCs/blob/main/KYC_MetaTools_0x7adc29cec54b124a7E8E1B1415DF95DDDD13B173.pdf





WEBSITE

Website URL

<https://namecheap.com>

Domain Registry

<https://www.godaddy.com>

Domain Expiration

Expires on 2023-12-06

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Very nice color scheme with appropriate graphics and overall layout.

Content

The information helps new investors understand what the product does right away.

No grammar mistakes found..

Whitepaper

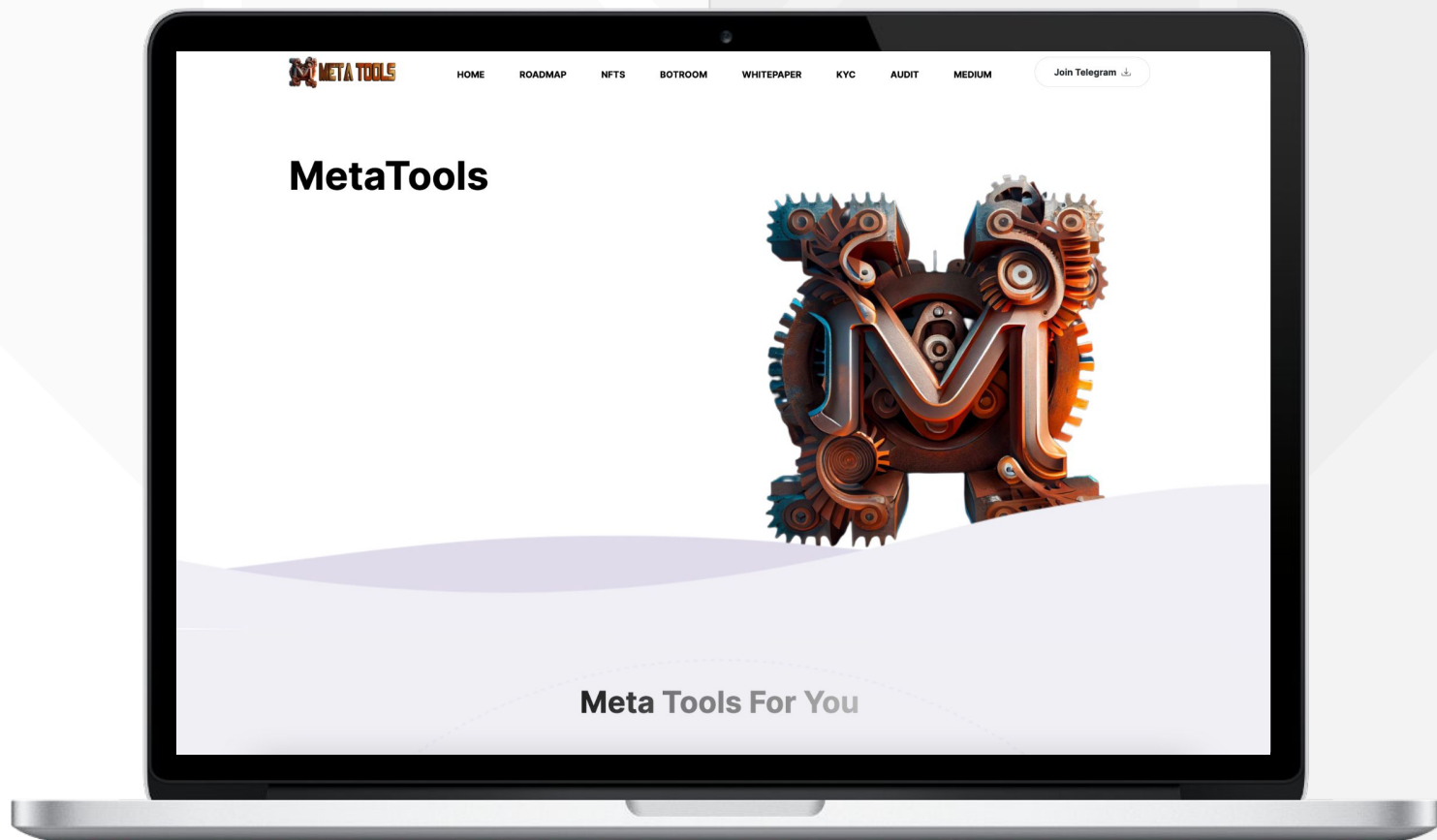
Yes

Roadmap

Yes, goals set without time frames.

Mobile-friendly?

Yes

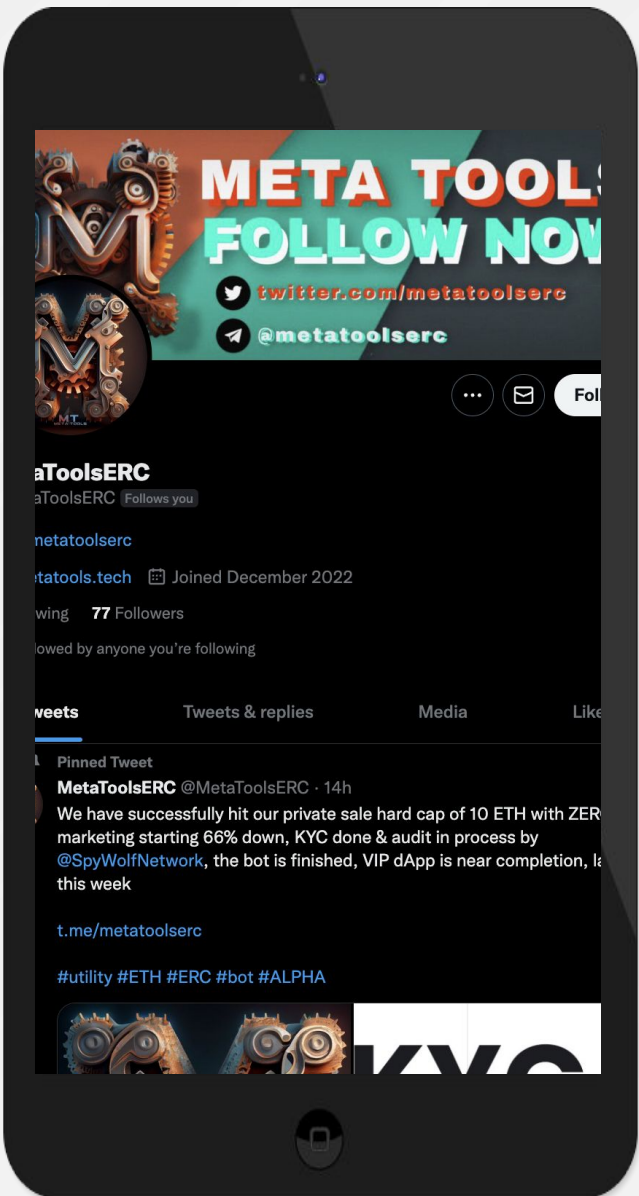
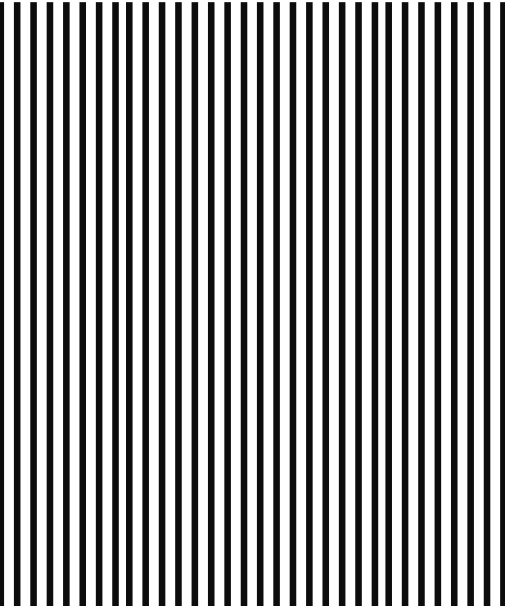


metatools.tech



SOCIAL MEDIA & ONLINE PRESENCE

ANALYSIS
The project's social media presence is active with a good amount of followers for being new.



Twitter
@metatoolserc

- 74 followers
- Active
- Posts frequently



Discord

- Not available



Telegram
@MetaToolsERC

- 380 members
- Active members
- Active mods



Medium

- Not available



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 150 SUCCESSFUL CLIENTS
- ✓ MORE THAN 500 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.